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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,222	12/31/2003	Valerie Guralnik	256.186US1	6645
21186	7590 03/20/2006		EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH			BHAT, ADITYA S	
1600 TCF TO	··· ·		ART UNIT	PAPER NUMBER
	IIGHT STREET IS, MN 55402		2863	

DATE MAILED: 03/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/750,222	GURALNIK, VALERIE	
O 1	fice Action Summary	Examiner	Art Unit	
		Aditya S. Bhat	2863	
The Period for Rep	MAILING DATE of this communication app lv	ears on the cover sheet with the o	correspondence address	
A SHORTE WHICHEVE - Extensions of after SIX (6) M - If NO period fo - Failure to repl Any reply rece	NED STATUTORY PERIOD FOR REPLY ER IS LONGER, FROM THE MAILING DA time may be available under the provisions of 37 CFR 1.13 AONTHS from the mailing date of this communication. or reply is specified above, the maximum statutory period v y within the set or extended period for reply will, by statute, eived by the Office later than three months after the mailing term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir- vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication (D) (35 U.S.C. § 133).	
Status			•	
2a)⊠ This a 3)□ Since	onsive to communication(s) filed on <u>06 Ja</u> action is FINAL . 2b) ☐ This this application is in condition for allowar d in accordance with the practice under E	action is non-final. nce except for formal matters, pro		S
Disposition of	Claims			,
4a) Of 5) ☐ Claim 6) ☑ Claim 7) ☐ Claim 8) ☐ Claim	(s) 1-28 and 30 is/are pending in the app if the above claim(s) 29 is/are withdrawn for (s) is/are allowed. (s) 1-28 and 30 is/are rejected. (s) is/are objected to. (s) are subject to restriction and/o	rom consideration.		
Application Pa				
10)⊠ The di Applic Repla	pecification is objected to by the Examine rawing(s) filed on <u>31 December 2003</u> is/a ant may not request that any objection to the cement drawing sheet(s) including the correct ath or declaration is objected to by the Examination is objected to be a continuous in the Examination is objected to be a continuous in the Examination is objected to be a continuous in the Examination is objected to be a continuous in the Examination is objected to be a continuous in the Examination is objected to be a continuous in the Examination is objected to be a continuous in the Examination is objected to be a continuous in the Examination is objected to be a continuous in the Examination is objected to be a continuous in the Examination is objected to be a continuous in the Examination is objected to be a continuous in the Examination is objected to be a continuous in the Examination is objected to be a continuous in the Examination is objected to be a continu	re: a) \square accepted or b) \square objector drawing(s) be held in abeyance. Setion is required if the drawing(s) is obtained.	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d	d).
Priority under	35 U.S.C. § 119			
12)	by ledgment is made of a claim for foreign b) Some * c) None of: Certified copies of the priority document. Certified copies of the priority document. Copies of the certified copies of the priority document application from the International Bureau e attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s)		·		
1) Notice of Re 2) Notice of Dra 3) Information (ferences Cited (PTO-892) aftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO-1449 or PTO/SB/08) (Mail Date 1/6/06.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-28 and 30 are rejected under 35 U.S.C. 102(e) as being anticipated by Qin et al. (USPN 6,594,620).

With regards to claims 1 and 16, Qin et al. (USPN 6,594,620) teaches a system and method of identifying events in a process, comprising:

running a principal component analysis model on sensor data from the process; calculating statistics related to the model; (Col. 2, lines 60-63)

determining if an event is occurring; (Col.3, lines 10-13) and

finding a nearest cluster of bad actors related to the event to identify the event. (Col.3, lines 10-13)

With regards to claims 2 and 17, Qin et al. (USPN 6,594,620) teaches a nearest cluster of bad actors comprises comparing the bad actor vectors to known clusters in a library of clusters for bad actors. (Col. 2, lines 42-44)

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With regards to claims 3 and 18, Qin et al. (USPN 6,594,620) teaches identifying a sequence of cluster matches; and correlating the sequence of cluster matches to known events. (Col.6, Lines 29-41)

With regards to claims 4 and 19, Qin et al. (USPN 6,594,620) teaches determining if a cluster needs to be split when new bad actors are added; and splitting the cluster into two clusters using a goodness of fit algorithm. (col. 19, lines 1-2)

With regards to claims 5 and 20, Qin et al. (USPN 6,594,620) teaches determining if a new event category is encountered; and broadening limits for the sequence of clusters. (col. 5, lines 30-41)

With regards to claim 6, Qin et al. (USPN 6,594,620) teaches a cluster is limited to a predetermined number of bad actors. (Col. 25, lines 14-17)

With regards to claim 7, Qin et al. (USPN 6,594,620) teaches the predetermined number of bad actors is ten. (Col. 8, line 50)

With regards to claims 8 and 21, Qin et al. (USPN 6,594,620) teaches the statistics comprise Q (residual error) (Col. 18, line 63) and T2 (unusual variance)(Col. 3, line 32).

With regards to claims 9 and 22, Qin et al. (USPN 6,594,620) teaches using a feature scoring scheme to identify top contributors of bad actors. (col. 2, lines 42-43)

With regards to claims 10 and 23, Qin et al. (USPN 6,594,620) teaches the feature scoring scheme is based on rank, value, and percent of contribution to a Qresidual sensor to identify a relative importance. (col. 2, lines 42-44)

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With regards to claims 11 and 24, Qin et al. (USPN 6,594,620) teaches the top-contributors are determined based on a majority percentage of the Q-residual. (col. 2, lines 42-44)

With regards to claims 12 and 25, Qin et al. (USPN 6,594,620) teaches the top-contributors are determined based on only the contributors with absolute values that are drastically different from values of other contributors. (col. 2, lines 42-44)

With regards to claims 13 and 26, Qin et al. (USPN 6,594,620) teaches the scoring scheme is based on predetermined limits. (col. 2, lines 42-44)

With regards to claims 14 and 27, Qin et al. (USPN 6,594,620) teaches the limits are computed statistically through change point detections. (Col. 2, lines 54-55)

With regards to claims 15 and 28, Qin et al. (USPN 6,594,620) teaches a predetermined minimum/maximum number of contributors are selected from rank, value, and percent of contribution to a Q-residual sensor to identify a relative importance. (col. 2, lines 42-44)

With regards to claim 30, Qin et al. (USPN 6,594,620) teaches a method of identifying events in a process, the method comprising:

running a principal component analysis model on sensor data from the process calculating statistics related to the model; (Col. 2, lines 60-63)

determining if a process event is occurring as a function of one or more process states being outside of normal range; (Col.3, lines 10-13) and

finding a nearest cluster of bad actors related to the process event to identify the process event. (Col.3, lines 10-13)

Response to Arguments

Applicant's arguments filed 1/6/2006 have been fully considered but they are not persuasive.

Applicant is reminded that during patent examination, the pending claims must be "given the broadest reasonable interpretation consistent with the specification." Applicant always has the opportunity to amend the claims during prosecution, and broad interpretation by the examiner reduces the possibility that the claim, once issued, will be interpreted more broadly than is justified. In re Prater, 415 F.2d 1393, 1404-05, 162 USPQ 541, 550-51 (CCPA 1969).

While the meaning of claims of issued patents are interpreted in light of the specification, prosecution history, prior art and other claims, this is not the mode of claim interpretation to be applied during examination. During examination, the claims must be interpreted as broadly as their terms reasonably allowed. This means that the words of the claim must be given their plain meaning unless applicant has provided a clear definition in the specification. In re Zletz, 893 F.2d 319, 321, 13 USPQ2d 1320, 1322 (Fed. Cir. 1989).

In this instance applicant argues that the prior art of record does not relate to an event in a process. In response to applicant's arguments, the recitation "a method for identifying an event in the process" has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for

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completeness but, instead, the process steps or structural limitations are able to stand alone. See In re Hirao, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and Kropa v. Robie, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951). Applicant goes on to argue that the prior art of record fails to disclose finding a nearest cluster of bad actors related to the event to identify the event. (col.3, lines 10-13)

Although examiner notes the difference between the cited prior art and the applicant's invention, the invention is claimed so broadly that it is believed to read on the prior art and therefore the rejection is deemed proper.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aditya S. Bhat whose telephone number is 571-272-2270. The examiner can normally be reached on M-F 9-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aditya Bhat March 14, 2006

John Barlow

Supervisory Patent Examiner

Technology Center 2800